

restriction, special statement of separate utility for each subcombination.

4. Grouping of the claims with a short description of the total extent of the invention as claimed in each group, with class and subclass for each group.

Claims Additions

Please add the following claims:

79. 4. A compact, high-efficiency, energy-recycling homogenizer module appropriately juxtaposible to accept radiation in a first format and to reformat such radiation to a processed format for optical projection

characterized by:

- a) entry means, to accept radiation into such homogenizer;
- b) labyrinth means, optically subsequent to said entry means, having a plurality of internally-reflective longitudinally directing principally forwarding surfaces and having also a plurality of latitudinal directing principally returning surfaces, for a complex multi-reflection directing and returning intensity uniformization and energy-recycling light path; and
- c) exit re-entry means, to forward radiation for partial utilization and partial return for recycling.

80. A compact, high-efficiency, energy-recycling illumination system according to Claim 4,

further characterized in that:

said labyrinth means maintains numeric aperture and produces self-luminous radiation at said exit re-entry means.

81. A compact, high-efficiency, energy-recycling illumination system according to Claim 80,

further characterized in that:

said labyrinth means provides a broad-spectrum self-luminous white light emission at said exit-re-entry means in response to a white light beam at said entry means, and recycles white light reflected back into said exit-re-entry means, processing such reflected light during such recycling so as to be self-luminous and with unchanged numeric aperture.

82. A compact, high-efficiency, energy-recycling illumination system according to Claim 80,

further characterized in that:

said labyrinth means provides a narrow-spectrum self-luminous ultra-violet emission at said exit-re-entry means in response to a narrow-spectrum ultraviolet beam at said entry means, and recycles ultraviolet radiation reflected back into said exit-re-entry means, processing such reflected radiation during such recycling so as to be self-luminous and with unchanged numeric aperture.